

No data available

## **MATERIAL SAFETY DATA SHEET**

### **4. FIRST AID MEASURES**

INHALATION	Move to well ventilated place. See medical advice immediately.
EYE	Immediately flush with plenty of water. See medical advice immediately.
SKIN	Wipe off with dry cloth and wash with mild soap. See medical advice immediately.
INGESTION	See medical advice immediately.
PROTECTION TO FIRST – AIDERS	No data available
NOTE TO PHYSICIAN	Treatment may vary with condition of victim and specifics of incident.

### **5. FIRE FIGHTING MEASURES**

FLAMMABLE PROPERTIES	Highly flammable
EXTINGUISHING MEDIA	Dry chemical powder, foam or carbon dioxide.
FIRE FIGHTING INSTRUCTIONS	Wear full fire-fighting turn-out gear and respiratory protection.

### **6. ACCIDENTAL RELEASE MEASURES**

LAND SPILL	Wipe off with dry cloth.
WATER SPILL	Contain spilled liquid with sand or earth. Do not use combustible materials, such as sawdust.

### **7. HANDLING AND STORAGE**

HANDLING :	Use only in the well-ventilated areas. Avoid contact with skin or eyes , or clothing. Avoid inhalation and ingestion. Avoid high temp. and fire. Wash thoroughly after handling.
STORAGE :	Store in a cool, dry, well-ventilated location. Keep away from heat, sunlight. Keep away from children.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

OSHA PEL (1994)		
	[Ethanol]	TWA 1,000ppm (1,900mg/m <sup>3</sup> )
ACGIH TLV (2003)		
	[Ethanol]	TWA 1,000ppm
	[2-Propanol,1-methoxy-]	TWA 100ppm
EN LIMIT (2000/39/EN)		
	[2-Propanol,1-methoxy-]	
	eight hours	100ppm (375mg/m <sup>3</sup> ) (skin)
	Short-term	150ppm (568mg/m <sup>3</sup> ) (skin)

#### EXPOSURE CONTROLS

##### Occupational Exposure Controls

##### Engineering Controls

Use exhaust ventilation to keep airborne concentration below exposure limits.

##### Personal Protection

##### Respiratory Protection

Use with local exhaust ventilation, when in long use.

##### Hand Protection

Not required, but wear safety gloves, if necessary.

##### Eye Protection

Not required, but wear safety glasses, if necessary.

##### Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

##### Environmental Exposure Controls

Not established

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state	Liquid
Odor	minor solvent odor
Boiling Point / Boiling Range	No data available
Flash Point	16.5
Explosive Properties	No data available
Relative Density (g/cm <sup>3</sup> )	0.9 ~ 1.0 g/cm <sup>3</sup>
Solubility [ Water ]	Insoluble

**MATERIAL SAFETY DATA SHEET****10. STABILITY AND REACTIVITY**

CONDITIONS TO AVOID	No data available
STABILITY	No data available
MATERIALS TO AVOID	No data available
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	No data available

**11. TOXICOLOGICAL INFORMATION**

Acute Toxicity (RTECS : 2004.11)

[Ethanol]			
Oral	LD <sub>50</sub> (rat)	7,060	mg/kg
Inhalation	LC <sub>50</sub> (rat)	20,000	ppm/10H
Skin	LD <sub>50</sub> (rabbit)	6,300	mg/kg
[2-Propanol,1-methoxy-]			
Oral	LD <sub>50</sub> (rat)	6,600	mg/kg
Inhalation	LC <sub>50</sub> (rat)	10,000	ppm/5H
Skin	LD <sub>50</sub> (rabbit)	13	mg/kg
[Propanoic acid,2-hydroxy-,ethyl ester]			
Oral	LD <sub>50</sub> (rat)	>2,000	mg/kg
Inhalation	LC <sub>50</sub> (rat)	>500	mg/ m <sup>3</sup>
Skin	LD <sub>50</sub> (rabbit)	>500	mg/kg

**12. ECOLOGICAL INFORMATION**

ECOTOXICITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
OTHER ADVERSE EFFECTS	No data available

**13. DISPOSAL CONSIDERATIONS**

Comply with all federal,state,EU,national and local regulations.  
Do not dump this product into sewers , on the ground or into any body of water.

**14. TRANSPORT INFORMATION**

UN CLASS	3
UN Packing Group (PG)	
UN NUMBER	1210
Proper Shipping Name	Printing ink, flammable

**MATERIAL SAFETY DATA SHEET****15. REGULATORY INFORMATION**

Refer to any other federal , state , EU , national and local regulations.

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200.

TSCA STATUS : All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302) :  
Not applicable

SARA TITLE : Not applicable

This product is classified as follows ,

[Ethanol] :	[F]	R:11	S; (2-)7-16
[2-Propanol,1-methoxy-]		R:10	S; (2-)24
[Propanoic acid,2-hydroxy-,ethyl ester] :			
	[Xi]	R:10-37-41	S: (2-)24-26-39

Symbol :	F	( Highly Flammable)
	Xi	( Irritant)
Risk Phrase :	10	( Flammable)
	11	( Highly flammable)
	37	( Irritating to respiratory system)
	41	( Risk of serious damage to eyes)
Safety Advice :	2	( Keep out of the reach of children.)
	7	( Keep container tightly closed.)
	16	( Keep away from sources of ignition – No smoking.)
	24	( Avoid contact with skin.)
	26	( In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.)
	39	( Wear eye/face protection.)

Please refer to any other EU, national and local measures.

**16. OTHER INFORMATION**

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